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PATENT 15275/8610 (Dobbins 2-1)

Examiner: J. Hoffman

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Reissue Application No.: 08/833,620

Filed : April 7, 1997

: 5,043,002 ) Group Art Unit: 1731

Granted : August 27, 1991

Patentees : Michael S. Dobbins and Robert E. McLay)

For : METHOD OF MAKING FUSED

SILICA BY DECOMPOSING

SILOXANES

## SUPPLEMENTAL COMBINED DECLARATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

U.S. Patent No.

Applicants, Michael S. Dobbins and Robert E. McLay, declare that:

We have reviewed and understand the contents of the specification, including the claims, of the attached reissue application.

We believe ourselves to be the original, first, and joint inventors of the subject matter described and claimed in our original Letters Patent No. 5,043,002, entitled METHOD OF MAKING FUSED SILICA BY DECOMPOSING SILOXANES, issued August 27, 1991, based on U.S. Patent Application Serial No. 568,230, filed August 16, 1990, and in the attached specification, for which invention we solicit a reissue patent. As to the claimed subject matter of this application, we do not know and do not believe that this subject matter was ever known or used in the United States prior to our invention or discovery thereof. We have the following citizenships, residences, and post office addresses:

	WWY NAME	FAMILY NAME	FIRST GIVEN	MIDDLE INITIAL
[	FULL NAME OF INVENTOR	TAINET WILL	NAME	
		Dobbins	Michael	S.
2 0 1	RESIDENCE &	CITY	STATE OR	COUNTRY OF CITIZENSHIP
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2 0 2	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	MIDDLE INITIAL
		McLay	Robert	E.
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We verily believe that issued U.S. Patent No. 5,043,002 is partly invalid by reason of our claiming more than we had a right to claim. More particularly, claims 1-2 and 23-24 of U.S. Patent No. 5,043,002, as issued, are believed to be invalid, because they read on Japanese Kokai Patent Application No. Hei 1[1989]-138145 to Kawaguchi ("Kawaguchi"). Kawaguchi is believed to anticipate claims 1-2 and 23-24, because those claims permit the claimed silicon-containing compound in vapor form to be a polymethylsiloxane (claims 1 and 23) or hexamethyldisiloxane (claims 2 and 24). Further, claim 12 is indefinite, because it refers to Group VB metals when, in fact, it should have referred to Group VA metals. See, for example, claims 7, 17, and 22. Finally, claims 13 and 21 are indefinite by reason of the need for the following changes: In column 10, line 15, after "(e)", delete "and" and in column 11, line 2, change "compounding" to --compound in--.

Further, we verily believe that our issued U.S. Patent No. 5,043,002 is partly inoperative by reason of a defective specification. More particularly, the following passage in U.S. Patent No. 5,043,002 should be modified: In column 3, line 20, change "mos" to -- most--.

The present reissue application obviates the above-noted invalidity of issued claims 1-2 and 23-24 by amending them so that the claimed silicon-containing compound in vapor

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form is polymethylcyclosiloxane. In addition, claims 27 and 30 are added to depend from claims 23 and 1, respectively, to specify that the polymethylcyclosiloxane is octamethylcyclotetrasiloxane. Claims 28 and 31 are added to depend from claims 27 and 30, respectively, to specify that the octamethylcyclotetrasiloxane increases deposition efficiency over that achieved when silicon tetrachloride is utilized as the silicon-containing compound in vapor form. Further claims 29 and 32 are added to depend from claims 28 and 31, respectively, to specify that the deposition increase is about 20%. The errors in claims 12, 13, and 21 and column 3 of the specification have been corrected by the above-noted

modifications. We acknowledge our duty under 37 CFR § 1.56 to disclose information of which we are aware which is material to the examination of this application.

All errors being corrected in this reissue application (including those noted above) up to the time of filing this declaration arose without deceptive intention on our part. We were not aware of Kawaguchi prior to or during prosecution of the original application corresponding to U.S. Patent No. 5,043,002. The relevance of Kawaguchi to U.S. Patent No. 5,043,002 was first discovered in the Summer of 1995, when assignee Corning Incorporated's Patent Department was conducting a patent analysis of competitors in Japan. Subsequently, Corning Incorporated's attorneys evaluated the claims of U.S. Patent No. 5,043,002 to determine the effect of Kawaguchi on the validity of those claims and how any invalidity problems were to be remedied. As a result, it was decided to file this reissue application with the amendments discussed above. During preparation of this reissue application, the error in claim 12 was discovered.

The errors in column 3 and claims 13 and 21 of U.S. Patent No. 5,043,002 became known to the attorney who prosecuted the case shortly after issuance of that patent and were called to the attention of the U.S. Patent and Trademark Office in the Notice of Error, filed September 16, 1991. However, since these errors were not believed to be of such a nature as would lead to a misunderstanding of the invention or to a misinterpretation of the patent claims, no certificate of correction was sought. In view of the filing of this reissue application on the other grounds noted above, these errors are also now being corrected.

We appoint Michael L. Goldman, Registration No. 30,727, Mark W. Lauroesch, Registration No. 35,583, and Edward Murphy, Registration No. 38,251, as our attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith. Send all correspondence to:

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Michael L. Goldman Nixon, Hargrave, Devans & Doyle P.O. Box 1051 Rochester, New York 14603 (716) 263-1304

The undersigned declare further that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	
mllDH	Robert EN Lay	
DATE	DATE	
5-30-98	5/1/98	